

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2011 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including USACE Erosion Survey**

**Sacramento River Basin**

<b>RD1001</b>	Overall LMA Rating	Total LMA Miles				
<b>Reclamation District No. 1001 Nicolaus</b>	<b>M</b>	<b>44.03</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Vegetation	4.71		4.71	10.70%		
Encroachments	0.14	0.20	0.94	2.13%	2.50	0.05
Animal Control	0.01		0.01	0.02%		
Slope Stability	0.06		0.06	0.14%		
<i>Supplemental</i>						
USACE Erosion Survey	1.71		1.71	3.88%		
<i>LMA Totals:</i>	6.63	0.20	7.43	16.87%	2.50	0.05

<b>Unit No. 01 Yankee Slough RB</b>	Overall Unit Rating	Total Unit Miles				
<b>RD1001</b>	<b>A</b>	<b>4.17</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Encroachments	0.02		0.02	0.48%	0.06	0.01
<i>Unit Totals:</i>	0.02	0.00	0.02	0.48%	0.06	0.01

<b>Unit No. 02 Yankee Slough LB</b>	Overall Unit Rating	Total Unit Miles				
<b>RD1001</b>	<b>A</b>	<b>3.66</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Encroachments	0.04		0.04	1.09%	0.03	0.02
<i>Supplemental</i>						
USACE Erosion Survey	0.01		0.01	0.27%		
<i>Unit Totals:</i>	0.05	0.00	0.05	1.37%	0.03	0.02

<b>Unit No. 03 Bear River LB</b>	Overall Unit Rating	Total Unit Miles				
<b>RD1001</b>	<b>M</b>	<b>12.60</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Vegetation	0.06		0.06	0.48%		
Encroachments	0.08	0.20	0.88	6.98%	0.64	
Slope Stability	0.03		0.03	0.24%		
<i>Supplemental</i>						
USACE Erosion Survey	0.34		0.34	2.70%		
<i>Unit Totals:</i>	0.51	0.20	1.31	10.40%	0.64	0.00

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Levee Inspections**

**Fall 2011 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including USACE Erosion Survey**

**Sacramento River Basin (cont.)**

<b>Unit No. 04 Feather River LB</b>	Overall Unit Rating	Total Unit Miles					
RD1001	<b>U</b>	<b>13.36</b>					
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments		
					PO Miles	CO Miles	
<i>Earthen Levee</i>							
Vegetation	4.63		4.63	34.66%			
Encroachments					0.04	0.01	
Animal Control	0.01		0.01	0.08%			
<i>Supplemental</i>							
USACE Erosion Survey	1.35		1.35	10.11%			
<i>Unit Totals:</i>	5.99	0.00	5.99	44.84%	0.04	0.01	

<b>Unit No. 05 Natomas Cross Canal RB</b>	Overall Unit Rating	Total Unit Miles					
RD1001	<b>A</b>	<b>5.44</b>					
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments		
					PO Miles	CO Miles	
<i>Earthen Levee</i>							
Encroachments					1.70	0.01	
<i>Supplemental</i>							
USACE Erosion Survey	0.01		0.01	0.18%			
<i>Unit Totals:</i>	0.01	0.00	0.01	0.18%	1.70	0.01	

<b>Unit No. 06 East Side Canal RB</b>	Overall Unit Rating	Total Unit Miles					
RD1001	<b>A</b>	<b>4.80</b>					
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments		
					PO Miles	CO Miles	
<i>Earthen Levee</i>							
Vegetation	0.02		0.02	0.42%			
Encroachments					0.03		
Slope Stability	0.03		0.03	0.63%			
<i>Unit Totals:</i>	0.05	0.00	0.05	1.04%	0.03	0.00	

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2011 Levee Inspection Results**

**Reclamation District No. 1001 Nicolaus**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			M	

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\*  
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Reclamation District No. 1001 Nicolaus**

Waterway			Bank	Unit Miles
Unit No. 01 Yankee Slough			Right	4.17
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	4/13/2011 - 4/13/2011		11/18/2011 - 11/18/2011	
DWR Inspector	Clay Thomas		Clay Thomas	
Accompanied By	Diane Fales		Diane Fales	

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

**Comments**

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports  
3310 El Camino Avenue, Suite 200  
Sacramento, CA 95821-9000

**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1001 Nicolaus**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 Yankee Slough						Right	4.17	11/18/2011 11/18/2011	Clay Thomas	

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.47	4.15	Earthen Levee	Vegetation	LS	A	Remove the wild growth other than native grasses from the levee slopes.	38.975475 ° -121.476097 °	38.970638 ° -121.534510 °	1 Y
2	0.47	4.15	Earthen Levee	Vegetation	WS	A	Remove the wild growth other than native grasses from the levee slopes.	38.975474 ° -121.476096 °	38.970638 ° -121.534514 °	2 Y
3	0.96	0.96	Earthen Levee	Encroachments	LS	CO	Landscaping	38.974569 ° -121.484815 °	38.974569 ° -121.484815 °	15
4	1.31	1.31	Earthen Levee	Encroachments	LS	M	Prunings	38.972689 ° -121.490599 °	38.972689 ° -121.490599 °	8
5	2.99	2.99	Earthen Levee	Encroachments	LS	M	Debris	38.966849 ° -121.518785 °	38.966849 ° -121.518785 °	7
6	3.16	3.22	Earthen Levee	Encroachments	LS	PO	Landscaping	38.965663 ° -121.521023 °	38.965705 ° -121.522098 °	5
7	3.35	3.35	Earthen Levee	Encroachments	LS	C	Debris	38.965585 ° -121.524458 °	38.965585 ° -121.524458 °	3
8	3.80	3.80	Earthen Levee	Vegetation	LS	W	Elderberries are blocking visibility and flood fight capability.	38.966372 ° -121.532323 °	38.966372 ° -121.532323 °	6

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable      PO : Partially Obstructing      N : Not Inspected, see Inspector Comment      C : Corrected  
M : Minimally Acceptable      CO : Completely Obstructing  
U : Unacceptable      W : Watch/Monitor

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.17	11/18/2011 11/18/2011	Clay Thomas

Levee Mile Report Line	1
Start Levee Mile	0.47
End Levee Mile	4.15
Location	Land Side
Category	Earthen Levee
Item	Vegetation

This photo shows the landside vegetation at levee mile 2.75.

cathom\_f\_20111201\_008.jpg



Levee Mile Report Line	2
Start Levee Mile	0.47
End Levee Mile	4.15
Location	Water Side
Category	Earthen Levee
Item	Vegetation

This photo shows the waterside vegetation at levee mile 2.75.

cathom\_f\_20111201\_007.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Reclamation District No. 1001 Nicolaus**

Waterway			Bank	Unit Miles
Unit No. 02 Yankee Slough			Left	3.66
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	4/13/2011 - 4/13/2011		11/18/2011 - 11/18/2011	
DWR Inspector	Clay Thomas		Clay Thomas	
Accompanied By	Diane Fales RD 1001		Diane Fales RD 1001	

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
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(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

**Comments**

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DWR Summer/Winter Inspection Reports  
3310 El Camino Avenue, Suite 200  
Sacramento, CA 95821-9000

**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1001 Nicolaus**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough						Left	3.66	11/18/2011 11/18/2011	Clay Thomas

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.04	3.63	Earthen Levee	Vegetation	WS	A	Remove the wild growth other than native grasses from the levee slopes.	38.971225 ° -121.474036 °	38.965404 ° -121.532794 °	2 Y
2	0.04	3.63	Earthen Levee	Vegetation	LS	A	Remove the wild growth other than native grasses from the levee slopes.	38.971224 ° -121.474036 °	38.965404 ° -121.532794 °	1 Y
3	0.52	0.52	Earthen Levee	Encroachments	LS	M	Debris	38.974325 ° -121.480495 °	38.974325 ° -121.480495 °	5
4	0.58	0.58	Earthen Levee	Encroachments	LS	M	Prunings	38.974323 ° -121.481754 °	38.974323 ° -121.481754 °	15
5	0.67	0.67	Earthen Levee	Encroachments	LS	PO	Landscaping	38.974198 ° -121.483150 °	38.974198 ° -121.483150 °	16
6	0.81	0.81	Earthen Levee	Encroachments	LS	M	Debris	38.973605 ° -121.485728 °	38.973605 ° -121.485728 °	7
7	0.82	0.82	Earthen Levee	Encroachments	WS	C	Debris	38.973525 ° -121.485704 °	38.973525 ° -121.485704 °	6
8	0.96	0.96	Earthen Levee	Encroachments	WS	C	Debris	38.973118 ° -121.488358 °	38.973118 ° -121.488358 °	8
9	1.00	1.00	Earthen Levee	Encroachments	WS	C	Debris	38.972905 ° -121.488953 °	38.972905 ° -121.488953 °	9
10	1.25	1.25	Earthen Levee	Encroachments	LS	M	Prunings	38.970654 ° -121.492448 °	38.970654 ° -121.492448 °	4
11	1.28	1.29	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2011: New erosion site. Steep eroding slope. Fairly old scarp with vegetation growth. [2011 Site ID: YAS_1-7_L]	38.969740 ° -121.494327 °	38.969640 ° -121.494829 °	13 Y
12	1.77	1.77	Earthen Levee	Encroachments	LS	CO	Landscaping	38.970353 ° -121.501935 °	38.970353 ° -121.501935 °	10
13	1.78	1.78	Earthen Levee	Encroachments	LS	CO	Buildings	38.970347 ° -121.502027 °	38.970347 ° -121.502027 °	11
14	1.79	1.81	Earthen Levee	Encroachments	LS	PO	Landscaping	38.970347 ° -121.502177 °	38.970327 ° -121.502618 °	12

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable      PO : Partially Obstructing      N : Not Inspected, see Inspector Comment      C : Corrected  
M : Minimally Acceptable      CO : Completely Obstructing  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.66	11/18/2011 11/18/2011	Clay Thomas

Levee Mile Report Line	1
Start Levee Mile	0.04
End Levee Mile	3.63
Location	Water Side
Category	Earthen Levee
Item	Vegetation

This photo shows the waterside vegetation at levee mile 0.93.

cathom\_f\_20111201\_009.jpg



Levee Mile Report Line	2
Start Levee Mile	0.04
End Levee Mile	3.63
Location	Land Side
Category	Earthen Levee
Item	Vegetation

This photo shows the landside vegetation at levee mile 0.93.

cathom\_f\_20111201\_010.jpg



Levee Mile Report Line	11
Start Levee Mile	1.28
End Levee Mile	1.29
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

USACE2011\_YAS\_1-7\_L\_1.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.66	11/18/2011 11/18/2011	Clay Thomas

Levee Mile Report Line	11
Start Levee Mile	1.28
End Levee Mile	1.29
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #2	
USACE2011_YAS_1-7_L_2.jpg	

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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Reclamation District No. 1001 Nicolaus**

Waterway			Bank	Unit Miles
Unit No. 03 Bear River			Left	12.60
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	4/12/2011 - 4/13/2011		11/18/2011 - 11/18/2011	
DWR Inspector	Clay Thomas		Clay Thomas	
Accompanied By	Diane Fales		Diane Fales	

Check one:

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**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1001 Nicolaus**

Waterway						Bank	Unit Miles	Inspection Start/End		Inspector
Unit No. 03 Bear River						Left	12.60	11/18/2011 11/18/2011		Clay Thomas
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.01	10.68	Earthen Levee	Vegetation	LS	A	Remove the wild growth other than native grasses from the levee slopes.	39.006597 ° -121.375184 °	38.961038 ° -121.546628 °	1 Y
2	0.01	10.68	Earthen Levee	Vegetation	WS	A	Remove the wild growth other than native grasses from the levee slopes.	39.006597 ° -121.375184 °	38.961037 ° -121.546628 °	2 Y
3	1.06	1.06	Earthen Levee	Slope Stability	WS	M	Repair the levee slope damaged by vehicle traffic and prevent access where possible.	39.006188 ° -121.394420 °	39.006188 ° -121.394420 °	5
4	1.21	1.77	Earthen Levee	Encroachments	WS	PO	Poles	39.005316 ° -121.397026 °	38.999814 ° -121.404346 °	3
5	1.47	1.47	Earthen Levee	Slope Stability	CR	M	Repair slope instability.	39.002848 ° -121.400285 °	39.002848 ° -121.400285 °	4
6	1.87	1.87	Earthen Levee	Slope Stability	LS	M	Repair the levee slope damaged by vehicle traffic and prevent access where possible.	38.998680 ° -121.405456 °	38.998680 ° -121.405456 °	6
7	3.54	3.54	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	38.991745 ° -121.434398 °	38.991745 ° -121.434398 °	906
8	3.80	3.96	Earthen Levee	Encroachments	LS	U	Debris	38.991225 ° -121.439192 °	38.991194 ° -121.442173 °	8 Y
9	4.05	4.05	Earthen Levee	Encroachments	LS	M	Debris	38.991299 ° -121.443830 °	38.991299 ° -121.443830 °	7
10	4.12	4.20	Earthen Levee	Encroachments	LS	PO	Landscaping	38.991442 ° -121.445035 °	38.991646 ° -121.446522 °	13
11	4.14	4.14	Earthen Levee	Encroachments	LS	M	Material	38.991479 ° -121.445398 °	38.991479 ° -121.445398 °	9
12	4.29	4.29	Earthen Levee	Encroachments	LS	M	Debris	38.991981 ° -121.447995 °	38.991981 ° -121.447995 °	17
13	4.50	4.54	Earthen Levee	Encroachments	LS	U	Prunings	38.991862 ° -121.451922 °	38.991803 ° -121.452670 °	16 Y
14	4.71	4.71	Earthen Levee	Encroachments	LS	M	Prunings	38.991413 ° -121.455866 °	38.991413 ° -121.455866 °	12
15	4.85	4.85	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	38.990773 ° -121.458203 °	38.990773 ° -121.458203 °	910
16	4.99	4.99	Earthen Levee	Encroachments	LS	M	Prunings	38.990000 ° -121.460597 °	38.990000 ° -121.460597 °	14
17	5.25	5.25	Earthen Levee	Encroachments	LS	M	Prunings	38.988676 ° -121.465012 °	38.988676 ° -121.465012 °	15
18	5.52	5.52	Earthen Levee	Encroachments	LS	M	Firewood	38.987308 ° -121.469648 °	38.987308 ° -121.469648 °	911
19	7.15	7.15	Earthen Levee	Encroachments	LS	M	Prunings	38.982754 ° -121.499213 °	38.982754 ° -121.499213 °	18

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
W : Watch/Monitor

N : Not Inspected, see Inspector Comment    C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1001 Nicolaus**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River				Left	12.60	11/18/2011 11/18/2011	Clay Thomas

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
20	7.16	7.29	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2008 - Sandy/silty banks with rotational slab failures creating near vertical bank with pop-outs due to tree failures. Narrow berm. 2011: No observed change. [2011 Site ID: BER_5-7_L]	38.982737 ° -121.501144 °	38.982572 ° -121.502797 °	11 Y
21	10.01	10.01	Earthen Levee	Encroachments	CR	C	Equipment Inspector Comments: Levee blocked for new bridge construction.	38.969410 ° -121.542127 °	38.969410 ° -121.542127 °	35
22	10.37	10.41	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2011: A large section of bank has slumped off, RD has flagging up, appears to be watching. [2011 Site ID: BER_2-5_L]	38.964583 ° -121.544967 °	38.964010 ° -121.545228 °	19 Y
23	11.05	11.21	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2011: Large slumped sections of bank. [2011 Site ID: BER_1-9_L]	38.955070 ° -121.549528 °	38.954227 ° -121.550592 °	20 Y
24	11.29	11.32	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	38.953367 ° -121.551428 °	38.953025 ° -121.551808 °	22
25	12.07	12.07	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2006 - Multiple rotational failures in the berm. Erosion is into the levee toe and lower slope. Tension cracks extensive at top of bank. Cohesive toe creates a bench on which failures occur. 2007 - Still steep bank with some berm with pistol-butted reeds. 2011: No observed change. [2011 Site ID: BER_0-8_L]	38.946477 ° -121.564094 °	38.947297 ° -121.563565 °	21 Y
26	12.24	12.24	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	38.946248 ° -121.564220 °	38.946248 ° -121.564220 °	27

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable      PO : Partially Obstructing      N : Not Inspected, see Inspector Comment      C : Corrected  
M : Minimally Acceptable      CO : Completely Obstructing  
U : Unacceptable      W : Watch/Monitor



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.60	11/18/2011 11/18/2011	Clay Thomas

Levee Mile Report Line	1
Start Levee Mile	0.01
End Levee Mile	10.68
Location	Land Side
Category	Earthen Levee
Item	Vegetation

This photo shows the landside vegetation at levee mile 0.14.

cathom\_f\_20111201\_005.jpg



Levee Mile Report Line	2
Start Levee Mile	0.01
End Levee Mile	10.68
Location	Water Side
Category	Earthen Levee
Item	Vegetation

This photo shows the waterside vegetation at levee mile 0.14.

cathom\_f\_20111201\_006.jpg



Levee Mile Report Line	8
Start Levee Mile	3.80
End Levee Mile	3.96
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Levee mile 3.80, this photo is looking at the debris on the landside slope and toe.

cathom\_f\_20110929\_633.jpg



**\* Location**

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WS : Water Side  
CR : Crown

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W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.60	11/18/2011 11/18/2011	Clay Thomas

Levee Mile Report Line	13
Start Levee Mile	4.50
End Levee Mile	4.54
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Levee mile 4.54, this photo is looking at the prunings on the landside slope and toe.

cathom\_f\_20110929\_635.jpg



Levee Mile Report Line	20
Start Levee Mile	7.16
End Levee Mile	7.29
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

USACE2011\_BER\_5-7\_L\_1.jpg



Levee Mile Report Line	20
Start Levee Mile	7.16
End Levee Mile	7.29
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

USACE2011\_BER\_5-7\_L\_2.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

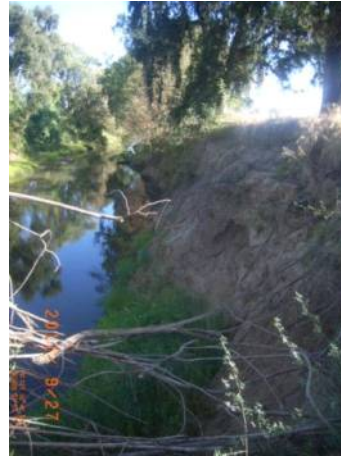
**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.60	11/18/2011 11/18/2011	Clay Thomas

Levee Mile Report Line	22
Start Levee Mile	10.37
End Levee Mile	10.41
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

USACE2011\_BER\_2-5\_L\_1.jpg



Levee Mile Report Line	22
Start Levee Mile	10.37
End Levee Mile	10.41
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

USACE2011\_BER\_2-5\_L\_2.jpg



Levee Mile Report Line	23
Start Levee Mile	11.05
End Levee Mile	11.21
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

USACE2011\_BER\_1-9\_L\_1.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.60	11/18/2011 11/18/2011	Clay Thomas

Levee Mile Report Line	23
Start Levee Mile	11.05
End Levee Mile	11.21
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

USACE2011\_BER\_1-9\_L\_2.jpg



Levee Mile Report Line	23
Start Levee Mile	11.05
End Levee Mile	11.21
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

USACE2011\_BER\_1-9\_L\_3.jpg



Levee Mile Report Line	25
Start Levee Mile	12.07
End Levee Mile	12.07
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

USACE2011\_BER\_0-8\_L\_1.jpg

**\* Location**

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W : Watch/Monitor

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.60	11/18/2011 11/18/2011	Clay Thomas

Levee Mile Report Line	25
Start Levee Mile	12.07
End Levee Mile	12.07
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #2	
USACE2011_BER_0-8_L_2.jpg	

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Reclamation District No. 1001 Nicolaus**

Waterway			Bank	Unit Miles
Unit No. 04 Feather River			Left	13.36
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	4/13/2011 - 4/14/2011		11/17/2011 - 11/18/2011	
DWR Inspector	Clay Thomas		Clay Thomas	
Accompanied By	Diane Fales		Diane Fales	

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

**Comments**

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports  
3310 El Camino Avenue, Suite 200  
Sacramento, CA 95821-9000

**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1001 Nicolaus**

Waterway						Bank	Unit Miles	Inspection Start/End		Inspector
Unit No. 04 Feather River						Left	13.36	11/17/2011 11/18/2011		Clay Thomas
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.03	1.72	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	38.941220 ° -121.567513 °	38.917153 ° -121.569994 °	14 Y
2	0.03	2.00	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	38.941220 ° -121.567521 °	38.913890 ° -121.572600 °	13 Y
3	0.86	0.86	Earthen Levee	Encroachments	LS	C	Prunings	38.929574 ° -121.568246 °	38.929574 ° -121.568246 °	7
4	1.24	1.24	Earthen Levee	Encroachments	LS	C	Prunings	38.924063 ° -121.568628 °	38.924063 ° -121.568628 °	8
5	1.92	1.92	Earthen Levee	Encroachments	LS	C	Prunings	38.915075 ° -121.572300 °	38.915075 ° -121.572300 °	9
6	3.22	3.22	Earthen Levee	Encroachments	LS	PO	Landscaping	38.899732 ° -121.584110 °	38.899732 ° -121.584110 °	31
7	5.21	13.31	Earthen Levee	Vegetation	WS	A	Remove the wild growth other than native grasses from the levee slopes.	38.882620 ° -121.611272 °	38.781319 ° -121.606207 °	2
8	5.21	13.31	Earthen Levee	Vegetation	LS	A	Remove the wild growth other than native grasses from the levee slopes.	38.882619 ° -121.611271 °	38.781319 ° -121.606208 °	1
9	5.27	5.36	Supplemental Survey	USACE Erosion Survey	WS	M	Inspector Comments: 2000 - Some active toe erosion of a damaged old cobble site. 2005 - Small amount of additional erosion at the waterline. 2008 - Plans for repair currently in the design phase. 2010 - Old deteriorating cobble site. Fresh fallen tree. 2011: This site is currently under contract for repair. Repairs should be complete in 2012. [2011 Site ID: FHR_7-0_L]	38.879779 ° -121.612228 °	38.878713 ° -121.612728 °	4 Y
10	5.78	5.86	Supplemental Survey	USACE Erosion Survey	WS	M	Inspector Comments: 2011: Erosion pockets from tree popouts. Sections of the lower bank have slumped off. [2011 Site ID: FHR_6-6_L]	38.874113 ° -121.615380 °	38.872373 ° -121.616504 °	5 Y
11	6.38	6.45	Supplemental Survey	USACE Erosion Survey	WS	M	Inspector Comments: 2011: Tall slumping sections. Scour around trees has exposed most of the roots. [2011 Site ID: FHR_6-0_L]	38.865606 ° -121.620168 °	38.864706 ° -121.620813 °	6 Y
12	6.48	6.48	Earthen Levee	Encroachments	LS	PO	Landscaping	38.865653 ° -121.619742 °	38.865653 ° -121.619742 °	17 Y
13	6.63	6.72	Supplemental Survey	USACE Erosion Survey	WS	M	Inspector Comments: 2011: Large slumped sections on the lower bank. [2011 Site ID: FHR_5-8_L]	38.863946 ° -121.621388 °	38.861558 ° -121.623316 °	15 Y
14	6.64	6.64	Earthen Levee	Encroachments	LS	PO	Landscaping	38.863700 ° -121.621198 °	38.863700 ° -121.621198 °	18

**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1001 Nicolaus**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River				Left	13.36	11/17/2011 11/18/2011	Clay Thomas

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
15	6.73	6.73	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	38.862607 ° -121.621891 °	38.862607 ° -121.621891 °	10
16	7.56	7.73	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2000 - Steep bank off berm with some slumps and fallen trees, continued erosion. 2002 - Site lengthened upstream and downstream due to vertical bank along most of the reach. 2010 - Site extended upstream. 2011: Minimal new erosion. [2011 Site ID: FHR_5-0_L]	38.851909 ° -121.629482 °	38.848004 ° -121.630873 °	16 Y
17	8.53	8.95	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2006 - Sandy, silty bank with intermittent pockets of erosion. Rotational failure and tree pop outs are most of the problem. Some upper slope fluvial erosion. 2010 - Site extended upstream. The lower Feather may benefit from a regional repair. 2011: Site combined with 3.6. Minimal new erosion. [2011 Site ID: FHR_3-8_L]	38.836966 ° -121.634128 °	38.831498 ° -121.636371 °	19 Y
18	8.72	8.72	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	38.835766 ° -121.633966 °	38.835766 ° -121.633966 °	12
19	9.74	9.74	Earthen Levee	Encroachments	WS	PO	Landscaping	38.833088 ° -121.635103 °	38.833088 ° -121.635103 °	21
20	11.15	11.15	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	38.802508 ° -121.632862 °	38.802508 ° -121.632862 °	22
21	11.19	11.44	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2000 - Site is relatively stable except for some toe erosion at the upstream end, recommend monitoring the upstream end. 2004 - Some new block failures (10ft deep) at the toe of the upstream end. 2007 - Some minor new slumping at the waterline. 2011: No observed change. [2011 Site ID: FHR_1-0_L]	38.800920 ° -121.633050 °	38.798165 ° -121.631939 °	20 Y
22	11.32	11.32	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	38.800112 ° -121.632242 °	38.800112 ° -121.632242 °	23
23	11.58	11.76	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 1997- Deposits over top of cobble on the upper slope. 2000 - Old cobble site in poor shape; some toe retreat, but little change; steep bank. 2010 - Site extended upstream due to new toe erosion. 2011: No observed change. [2011 Site ID: FHR_0-6_L]	38.795455 ° -121.629903 °	38.793394 ° -121.628156 °	27 Y
24	12.40	12.40	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	38.787355 ° -121.621165 °	38.787355 ° -121.621165 °	24
25	12.57	12.57	Earthen Levee	Encroachments	LS	CO	Buildings	38.786073 ° -121.618522 °	38.786073 ° -121.618522 °	25

**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1001 Nicolaus**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 04 Feather River				Left	13.36	11/17/2011 11/18/2011	Clay Thomas	

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
26	12.74	13.22	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	38.784513 ° -121.616045 °	38.781862 ° -121.607855 °	26
27	12.76	13.21	Earthen Levee	Vegetation	WS	M	Elderberries are blocking visibility and flood fight capability.	38.784579 ° -121.615689 °	38.782150 ° -121.607918 °	11

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	11/17/2011 11/18/2011	Clay Thomas

Levee Mile Report Line	1
Start Levee Mile	0.03
End Levee Mile	1.72
Location	Water Side
Category	Earthen Levee
Item	Vegetation

This photo shows the waterside vegetation at levee mile 0.45.

cathom\_f\_20111201\_012.jpg



Levee Mile Report Line	2
Start Levee Mile	0.03
End Levee Mile	2.00
Location	Land Side
Category	Earthen Levee
Item	Vegetation

This photo shows the landside vegetation at levee mile 0.45.

cathom\_f\_20111201\_011.jpg



Levee Mile Report Line	9
Start Levee Mile	5.27
End Levee Mile	5.36
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

USACE2011\_FHR\_7-0\_L\_1.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	11/17/2011 11/18/2011	Clay Thomas

Levee Mile Report Line	9
Start Levee Mile	5.27
End Levee Mile	5.36
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

USACE2011\_FHR\_7-0\_L\_2.jpg



Levee Mile Report Line	10
Start Levee Mile	5.78
End Levee Mile	5.86
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

USACE2011\_FHR\_6-6\_L\_1.jpg



Levee Mile Report Line	10
Start Levee Mile	5.78
End Levee Mile	5.86
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

USACE2011\_FHR\_6-6\_L\_2.jpg

**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	11/17/2011 11/18/2011	Clay Thomas

Levee Mile Report Line	10
Start Levee Mile	5.78
End Levee Mile	5.86
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

USACE2011\_FHR\_6-6\_L\_3.jpg



Levee Mile Report Line	11
Start Levee Mile	6.38
End Levee Mile	6.45
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

USACE2011\_FHR\_6-0\_L\_1.jpg



Levee Mile Report Line	11
Start Levee Mile	6.38
End Levee Mile	6.45
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

USACE2011\_FHR\_6-0\_L\_2.jpg

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	11/17/2011 11/18/2011	Clay Thomas

Levee Mile Report Line	11
Start Levee Mile	6.38
End Levee Mile	6.45
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

USACE2011\_FHR\_6-0\_L\_3.jpg



Levee Mile Report Line	12
Start Levee Mile	6.48
End Levee Mile	6.48
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Landscaping on the land side shoulder and slope levee mile 6.48.

cathom\_f\_20110929\_639.jpg



Levee Mile Report Line	12
Start Levee Mile	6.48
End Levee Mile	6.48
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Landscaping levee mile 6.48.

cathom\_f\_20110929\_640.jpg

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	11/17/2011 11/18/2011	Clay Thomas

Levee Mile Report Line	13
Start Levee Mile	6.63
End Levee Mile	6.72
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

USACE2011\_FHR\_5-8\_L\_1.jpg



Levee Mile Report Line	13
Start Levee Mile	6.63
End Levee Mile	6.72
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

USACE2011\_FHR\_5-8\_L\_2.jpg



Levee Mile Report Line	16
Start Levee Mile	7.56
End Levee Mile	7.73
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

USACE2011\_FHR\_5-0\_L\_1.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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Wednesday, December 21, 2011 15:00

**FINAL DATA**

Page 8 of 14

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	11/17/2011 11/18/2011	Clay Thomas

Levee Mile Report Line	16
Start Levee Mile	7.56
End Levee Mile	7.73
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

USACE2011\_FHR\_5-0\_L\_2.jpg



Levee Mile Report Line	16
Start Levee Mile	7.56
End Levee Mile	7.73
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

USACE2011\_FHR\_5-0\_L\_3.jpg



Levee Mile Report Line	16
Start Levee Mile	7.56
End Levee Mile	7.73
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #4

USACE2011\_FHR\_5-0\_L\_4.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	11/17/2011 11/18/2011	Clay Thomas

Levee Mile Report Line	16
Start Levee Mile	7.56
End Levee Mile	7.73
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #5

USACE2011\_FHR\_5-0\_L\_5.jpg



Levee Mile Report Line	17
Start Levee Mile	8.53
End Levee Mile	8.95
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

USACE2011\_FHR\_3-8\_L\_1.jpg



Levee Mile Report Line	17
Start Levee Mile	8.53
End Levee Mile	8.95
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

USACE2011\_FHR\_3-8\_L\_2.jpg

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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M : Minimally Acceptable  
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W : Watch/Monitor

N : Not Inspected, see Inspector Comment    C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	11/17/2011 11/18/2011	Clay Thomas

Levee Mile Report Line	17
Start Levee Mile	8.53
End Levee Mile	8.95
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

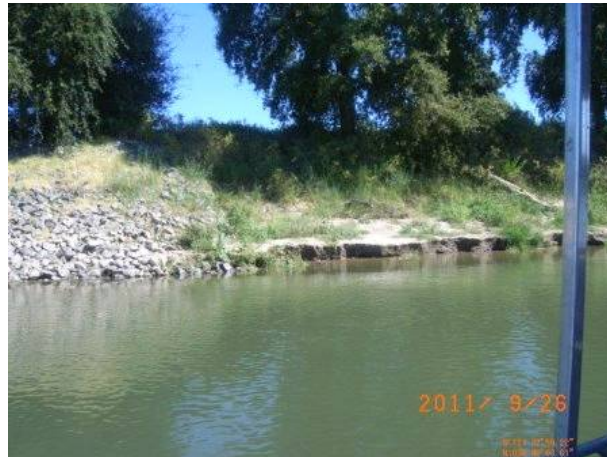
USACE2011\_FHR\_3-8\_L\_3.jpg



Levee Mile Report Line	21
Start Levee Mile	11.19
End Levee Mile	11.44
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

USACE2011\_FHR\_1-0\_L\_1.jpg



Levee Mile Report Line	21
Start Levee Mile	11.19
End Levee Mile	11.44
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

USACE2011\_FHR\_1-0\_L\_2.jpg

**\* Location**

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CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	11/17/2011 11/18/2011	Clay Thomas

Levee Mile Report Line	21
Start Levee Mile	11.19
End Levee Mile	11.44
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

USACE2011\_FHR\_1-0\_L\_3.jpg



Levee Mile Report Line	21
Start Levee Mile	11.19
End Levee Mile	11.44
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #4

USACE2011\_FHR\_1-0\_L\_4.jpg



Levee Mile Report Line	21
Start Levee Mile	11.19
End Levee Mile	11.44
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #5

USACE2011\_FHR\_1-0\_L\_5.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	11/17/2011 11/18/2011	Clay Thomas

Levee Mile Report Line	23
Start Levee Mile	11.58
End Levee Mile	11.76
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

USACE2011\_FHR\_0-6\_L\_1.jpg



Levee Mile Report Line	23
Start Levee Mile	11.58
End Levee Mile	11.76
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

USACE2011\_FHR\_0-6\_L\_2.jpg



Levee Mile Report Line	23
Start Levee Mile	11.58
End Levee Mile	11.76
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

USACE2011\_FHR\_0-6\_L\_3.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.36	11/17/2011 11/18/2011	Clay Thomas

Levee Mile Report Line	23
Start Levee Mile	11.58
End Levee Mile	11.76
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #4	
USACE2011_FHR_0-6_L_4.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Reclamation District No. 1001 Nicolaus**

Waterway			Bank	Unit Miles
Unit No. 05 Natomas Cross Canal			Right	5.44
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	4/14/2011 - 4/14/2011		11/21/2011 - 11/21/2011	
DWR Inspector	Clay Thomas		Clay Thomas	
Accompanied By	Diane Fales		Diane Fales	

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

**Comments**

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports  
3310 El Camino Avenue, Suite 200  
Sacramento, CA 95821-9000

**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1001 Nicolaus**

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal							Right	5.44	11/21/2011 11/21/2011	Clay Thomas
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	0.75	Earthen Levee	Encroachments	WS	PO	Poles	38.781240 ° -121.605436 °	38.790073 ° -121.598159 °	2 Y
2	0.14	5.39	Earthen Levee	Vegetation	WS	A	Remove the wild growth other than native grasses from the levee slopes.	38.783123 ° -121.604663 °	38.830646 ° -121.530510 °	4 Y
3	0.14	5.39	Earthen Levee	Vegetation	LS	A	Remove the wild growth other than native grasses from the levee slopes.	38.783123 ° -121.604662 °	38.830646 ° -121.530510 °	1 Y
4	0.19	0.86	Earthen Levee	Encroachments	LS	PO	Poles	38.783758 ° -121.604189 °	38.791058 ° -121.596562 °	5 Y
5	0.83	0.83	Earthen Levee	Encroachments	WS	CO	Buildings	38.790830 ° -121.596973 °	38.790830 ° -121.596973 °	3 Y
6	1.15	1.15	Earthen Levee	Encroachments	LS	PO	Poles	38.793613 ° -121.592230 °	38.793613 ° -121.592230 °	6 Y
7	1.52	1.59	Earthen Levee	Slope Stability	LS	C	Repair slope instability.	38.796843 ° -121.586875 °	38.797417 ° -121.585949 °	13
8	2.24	2.24	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2006 - Noted old saturation slumping of upper levee slope that is into the levee core (near high water line). 2011: Erosion is into the top of the levee. This site is actually located at LM 2.5. [2011 Site ID: NCC_3-0_R]	38.803877 ° -121.575053 °	38.804206 ° -121.574529 °	15 Y
9	3.59	3.85	Earthen Levee	Encroachments	LS	PO	Poles	38.814919 ° -121.556712 °	38.817178 ° -121.552965 °	7 Y
10	3.69	3.69	Earthen Levee	Encroachments	WS	W	Equipment	38.815737 ° -121.555338 °	38.815737 ° -121.555338 °	8 Y
11	3.73	3.73	Earthen Levee	Encroachments	WS	W	Equipment	38.816155 ° -121.554650 °	38.816155 ° -121.554650 °	9
12	3.85	3.85	Earthen Levee	Encroachments	WS	W	Equipment	38.817177 ° -121.552967 °	38.817177 ° -121.552967 °	11
13	3.85	3.85	Earthen Levee	Encroachments	LS	PO	Tank	38.817178 ° -121.552965 °	38.817178 ° -121.552965 °	10 Y
14	4.44	4.44	Earthen Levee	Encroachments	CR	W	Material	38.822198 ° -121.544053 °	38.822198 ° -121.544053 °	12 Y

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable      PO : Partially Obstructing      N : Not Inspected, see Inspector Comment      C : Corrected  
M : Minimally Acceptable      CO : Completely Obstructing  
U : Unacceptable      W : Watch/Monitor

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.44	11/21/2011 11/21/2011	Clay Thomas

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	0.75
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Poles on the water side shoulder levee mile 0.00 - 0.75

cathom\_f\_20110929\_641.jpg



Levee Mile Report Line	2
Start Levee Mile	0.14
End Levee Mile	5.39
Location	Water Side
Category	Earthen Levee
Item	Vegetation

This photo shows the waterside vegetation at levee mile 0.15.

cathom\_f\_20111201\_013.jpg



Levee Mile Report Line	3
Start Levee Mile	0.14
End Levee Mile	5.39
Location	Land Side
Category	Earthen Levee
Item	Vegetation

This photo shows the landside vegetation at levee mile 0.18.

cathom\_f\_20111201\_014.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

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CO : Completely Obstructing  
W : Watch/Monitor

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.44	11/21/2011 11/21/2011	Clay Thomas

Levee Mile Report Line	4
Start Levee Mile	0.19
End Levee Mile	0.86
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Poles at the land side toe levee mile 0.19 - 0.86.

cathom\_f\_20110929\_644.jpg



Levee Mile Report Line	5
Start Levee Mile	0.83
End Levee Mile	0.83
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Pump house on the water side levee mile 0.83.

cathom\_f\_20110929\_642.jpg



Levee Mile Report Line	5
Start Levee Mile	0.83
End Levee Mile	0.83
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Pump house and Caretakers home levee mile 0.83

cathom\_f\_20110929\_643.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

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W : Watch/Monitor

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.44	11/21/2011 11/21/2011	Clay Thomas

Levee Mile Report Line	6
Start Levee Mile	1.15
End Levee Mile	1.15
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Pole on land side shoulder levee mile 1.15.

cathom\_f\_20110929\_645.jpg



Levee Mile Report Line	6
Start Levee Mile	1.15
End Levee Mile	1.15
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Pole on land side shoulder.

cathom\_f\_20110929\_646.jpg



Levee Mile Report Line	8
Start Levee Mile	2.24
End Levee Mile	2.24
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

USACE2011\_NCC\_3-0\_R\_1.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.44	11/21/2011 11/21/2011	Clay Thomas

Levee Mile Report Line	9
Start Levee Mile	3.59
End Levee Mile	3.85
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Poles on the land side shoulder levee mile 3.59 - 3.85.	
cathom_f_20110929_647.jpg	



Levee Mile Report Line	10
Start Levee Mile	3.69
End Levee Mile	3.69
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Pump water side levee mile 3.69.	
cathom_f_20110929_648.jpg	



Levee Mile Report Line	13
Start Levee Mile	3.85
End Levee Mile	3.85
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Storage tank on land side slope levee mile 3.85.	
cathom_f_20110929_649.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.44	11/21/2011 11/21/2011	Clay Thomas

Levee Mile Report Line	14
Start Levee Mile	4.44
End Levee Mile	4.44
Location	Crown
Category	Earthen Levee
Item	Encroachments
Levee stops at hwy 70 and starts again on the other side of hwy 70.	
cathom_f_20110929_650.jpg	

**\* Location**

LS : Land Side  
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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Reclamation District No. 1001 Nicolaus**

Waterway			Bank	Unit Miles
Unit No. 06 East Side Canal			Right	4.80

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	4/14/2011 - 4/22/2011		11/21/2011 - 11/21/2011	
DWR Inspector	Clay Thomas		Clay Thomas	
Accompanied By	Diane Fales		Diane Fales	

Check one:

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(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

**Comments**

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DWR Summer/Winter Inspection Reports  
3310 El Camino Avenue, Suite 200  
Sacramento, CA 95821-9000

**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1001 Nicolaus**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal						Right	4.80	11/21/2011 11/21/2011	Clay Thomas

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
1	0.02	4.71	Earthen Levee	Vegetation	WS	A	Remove the wild growth other than native grasses from the levee slopes.	38.831287 ° -121.529439 °	38.896263 ° -121.521071 °	2 Y
2	0.02	4.71	Earthen Levee	Vegetation	LS	A	Remove the wild growth other than native grasses from the levee slopes.	38.831287 ° -121.529438 °	38.896263 ° -121.521071 °	1 Y
3	1.06	1.06	Earthen Levee	Encroachments	LS PO		Landscaping	38.845643 ° -121.524363 °	38.845643 ° -121.524363 °	5 Y
4	1.37	1.37	Earthen Levee	Encroachments	LS PO		Equipment	38.850042 ° -121.524359 °	38.850042 ° -121.524359 °	6 Y
5	1.45	1.45	Earthen Levee	Encroachments	LS PO		Equipment	38.851272 ° -121.524357 °	38.851272 ° -121.524357 °	3 Y
6	1.48	1.48	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	38.851724 ° -121.524518 °	38.851724 ° -121.524518 °	9
7	2.06	2.06	Earthen Levee	Slope Stability	CR	M	Repair the levee slope damaged by vehicle traffic and prevent access where possible.	38.860002 ° -121.524873 °	38.860002 ° -121.524873 °	8
8	4.05	4.05	Earthen Levee	Slope Stability	CR	M	Repair the levee slope damaged by vehicle traffic and prevent access where possible.	38.888821 ° -121.524733 °	38.888821 ° -121.524733 °	7
9	4.35	4.35	Earthen Levee	Slope Stability	CR	M	Repair the levee slope damaged by vehicle traffic and prevent access where possible.	38.893058 ° -121.524705 °	38.893058 ° -121.524705 °	4
10	4.51	4.51	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	38.895287 ° -121.524473 °	38.895287 ° -121.524473 °	10

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable      PO : Partially Obstructing      N : Not Inspected, see Inspector Comment      C : Corrected  
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U : Unacceptable      W : Watch/Monitor

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.80	11/21/2011 11/21/2011	Clay Thomas

Levee Mile Report Line	1
Start Levee Mile	0.02
End Levee Mile	4.71
Location	Water Side
Category	Earthen Levee
Item	Vegetation

This photo shows the waterside vegetation at levee mile 0.08.

cathom\_f\_20111201\_015.jpg



Levee Mile Report Line	2
Start Levee Mile	0.02
End Levee Mile	4.71
Location	Land Side
Category	Earthen Levee
Item	Vegetation

This photo shows the landside vegetation at levee mile 0.08.

cathom\_f\_20111201\_016.jpg



Levee Mile Report Line	3
Start Levee Mile	1.06
End Levee Mile	1.06
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Landscaping on the land side slope L/M 1.06.

cathom\_f\_20110929\_653.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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U : Unacceptable

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CO : Completely Obstructing  
W : Watch/Monitor

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 1001 Nicolaus**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.80	11/21/2011 11/21/2011	Clay Thomas

Levee Mile Report Line	4
Start Levee Mile	1.37
End Levee Mile	1.37
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Equipment at the land side toe L/M 1.37.

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Levee Mile Report Line	5
Start Levee Mile	1.45
End Levee Mile	1.45
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Equipment at the land side toe L/M 1.45.

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**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable      PO : Partially Obstructing      N : Not Inspected, see Inspector Comment      C : Corrected  
M : Minimally Acceptable      CO : Completely Obstructing  
U : Unacceptable      W : Watch/Monitor